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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Pisutha-Armond et al. )  
For: Message Alert System and )  
Method of Providing Message )  
Notification )  
Serial No.: 09/504,135 )  
Filed: February 15, 2000 )  
Examiner: Persino, R. )  
Art Unit: 2682 )

DECLARATION under 37 C.F.R. §1.131

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The following Declaration and any attachments are to establish conception in the United States of claimed subject matter in the present patent application, which when coupled with diligence relative to filing entitles the inventors to swear behind some references having a priority date that predates the filing date of the present application. In the present application, conception as evidenced by the attached disclosure document occurred prior to the effective date of Hellebust et al., US Patent No. 6,628,194, which was filed in the United States on August 31, 1999 and relied upon by the Examiner to support rejections under 35 U.S.C. 102(e) and 35 U.S.C. 103(a) in an Office Action dated December 5, 2003. The specific dates in the disclosure document being submitted have been redacted, but have been confirmed as establishing the document as pre-existing the filing date of the relied upon reference.

In support of this Declaration, We, Suthirug Num Pisutha-Armond, Saint Charles, Missouri; Sheila Renee Crosby, Libertyville, Illinois; Eric Christensen, Buffalo Grove, Illinois; Paul Silver, Buffalo Grove, Illinois; George W. Schaupp, Jr., Barrington, Illinois; Keith

U.S. Application Serial No. 09/504,135

McConnell, Wonder Lake, Illinois; and Scott E. Preece, Urbana, Illinois, declare and sayeth the following:

That we conceived the claimed subject matter of the referenced patent application in the United States before August 31, 1999, the effective date of Hellebust et al., US Patent No. 6,628,194, in the course of our employment at Motorola Inc., the assignee of the instant application by virtue of an assignment duly recorded on the Official record of the US Patent and Trademark Office;

That the claimed subject matter of the referenced patent application was the subject of a written disclosure prepared after conception, and that the written disclosure was duly submitted for consideration by a patent committee of Motorola Inc.;

That the conception date is no later than the date that the disclosure document can be shown to be in existence, which is supported by the redacted date that the disclosure document was submitted for consideration by the patent committee, and the redacted dates that each of the inventors and the witnesses signed the disclosure, all of which are prior to August 31, 1999;

That on information and belief a patent application was prepared and filed, in due course, in the United States Patent Office on February 15, 2000 by or on behalf of Motorola Inc.;

That all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Subirug Num Pisutha-Arnold 6-2-2004  
Date

Sheila Renee Crosby Date

Eric Christensen Date

Paul Silver Date

George W. Schaupp, Jr. Date

Keith McConnell Date

Scott E. Preece Date

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Suthirug Num Pisutha-Arnold Date

*E. Christensen*

5-6-01

Eric Christensen

Date

George W. Schaupp, Jr.

Date

Scott E. Preece

Date

Sheila Renee Crosby Date

Paul Silver

Date

Keith McConnell

Date

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\_\_\_\_\_  
Suthirug Num Pisutha-Arnold      Date

\_\_\_\_\_  
Eric Christensen      Date

George W. Schaupp, Jr.      5-12-04  
George W. Schaupp, Jr.      Date

\_\_\_\_\_  
Scott E. Precce      Date

Sheila Renee Crosby      6/2/04  
Sheila Renee Crosby      Date

Paul Silver      Date  
Keith McConnell      4 JUNE 2004  
Keith McConnell      Date

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Suthirug Num Pisutha-Arnold      Date

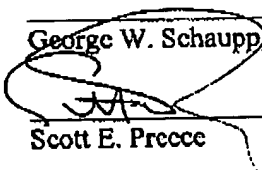
Sheila Renee Crosby      Date

Eric Christensen      Date

Paul Silver      Date

George W. Schaupp, Jr.      Date

Keith McConnell      Date

 2004.5.7  
Scott E. Preece      Date



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\_\_\_\_\_  
George W. Schaupp, Jr.      Date

\_\_\_\_\_  
Scott E. Preece      Date

\_\_\_\_\_  
Sheila Renee Crosby      Date  
*Paul Silver*      6/3/2004  
Paul Silver      Date

\_\_\_\_\_  
Keith McConnell      Date

MOTOROLA INC.

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DISCLOSURE FOR PATENT COMMITTEE  
SUBMITTED PURSUANT TO EMPLOYMENT AGREEMENT

Inventor(s) will not fill in

Operation CSSRLDISCLOSURE NO. CS-10006 DATE           

Patent Committee Action

Inventor(s) Name(s) Preece  
Suthirug Num Pisutha-Arnond, Sheila Renee Crosby  
Eric Christensen et al: Silver, Schaupp, McConnell

## FOR INSTRUCTIONS FOR COMPLETION REFER TO DISCLOSURE INSTRUCTION PROCEDURE

Inventor must fill in items 1 thru 12.

Items 2 to 5 may require extra sheets. BE SURE they are signed, witnessed and attached.

1. Name of the invention. (Limit to ten words.)  
Selectable Methods of Treating Incoming Messages
2. State the problem(s) resolved by the invention.  
See attached
3. Describe the invention in detail. Include its operation, purpose, environment and how problem(s) were solved. (Use separate sheets as required).  
See attached.
4. What new elements (e.g. components, circuits, process steps) or combination of known elements or software algorithm produced the improvement(s) over known technology?  
See attached.
5. List the closest known technology (attach article, patent, catalog sheet or other documentation).
6. What are the potential applications for use of this invention?  
Cellular phones, pagers, all handheld devices with small graphics displays
7. Conception date?            (Attach earliest log sheets, drawings, etc., to support dates).
8. To whom did you first disclose this invention? Name:            Date:
9. Date the device was first built and tested.             
Present location of the device?

## DETERMINATION OF LEGAL INVENTORSHIP FOR PATENT APPLICATION MUST BE MADE BY THE PATENT DEPARTMENT.

Inventor's signature (IMPORTANT — YOU MUST USE YOUR FULL FIRST, MIDDLE AND LAST NAMES).

10. Inventor's Full Name: (Type)	Signature	Date	Social Security No.		
Suthirug Num Pisutha-Arnond	<u>[Signature]</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Home Address: Street	City	State	Country	Zip Code	
2932 North Clark Street, Apt. 2E	Chicago	IL	USA	60657	
Citizen of (i.e. U.S., Germany, etc.)	Dept. No.	Phone	Room No.	Employee Status	
USA	BA505	523-0197	AS211	<input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Contractor	
11A. Inventor's Full Name: (Type)	Signature	Date	Social Security No.		
Sheila Renee Crosby	<u>[Signature]</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
Home Address: Street	City	State	Country	Zip Code	
325 Hampton Court	Crystal Lake	IL	USA	600123739	
Citizen of (i.e. U.S., Germany, etc.)	Dept. No.	Phone	Room No.	Employee Status	
USA	BA505	523-2203	AS211	<input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Contractor	

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Page 3 -- Disclosure No. \_\_\_\_\_

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12. Inventor's Full Name: (Type)	Signature	Date	Social Security No.	
Home Address: Street	City	State	Country	Zip Code
Citizen of (i.e. U.S., Germany, etc.)	Dept. No.	Phone	Room No.	Employee Status <input type="checkbox"/> Permanent <input type="checkbox"/> Contractor

Witness signatures (TWO WITNESSES ARE REQUIRED).

Witness must sign and date this form and all attachments.

THE WITNESSES IN SIGNING THIS FORM ATTEST TO THE FACT THAT THEY UNDERSTAND THE INVENTION.

13. Witness Name: (Type) R. J. STRONG Signature R. J. Strong Date [redacted] Phone 523 166314. Witness Name: (Type) Byron Brown Signature [redacted] Date [redacted] Phone 523 2270

Items 15 to 25 are to be filled in by the ENGINEERING and MARKETING/PRODUCT MANAGER or equivalent. Use separate sheets as required.

THE MANAGERS IN SIGNING THIS FORM ATTEST THAT THEY UNDERSTAND THE INVENTION.

15. What product will this invention be used in? (No code names -- use brief description if necessary)  
Future cellular phones.16. When (was) (will) the first offer for sale of a product incorporating this invention (be) made?  
Date: [redacted]

17. When is the estimated shipping date?

18. When (was) (will) the first disclosure outside of Motorola (be) made? How and to whom? Nondisclosure agreement signed? State title and date of publication, if any.  
No planned disclosures yet.19. What is the market for products incorporating this invention? Be specific and quantitative.  
Any small hand-held device with a graphic display.20. Who are the potential competitors? What is the possibility this invention will be used by competitors? Which ones?  
Philips, Nokia, Ericsson, AEG/Matra, Siemens, Sony21. Did this invention result from work on a development Contract? (YES) (NO) Contract No. \_\_\_\_\_  
Who was the contracting party?22. Discuss the business impact that this invention will have on Motorola. Be specific and quantitative.  
This invention can give Motorola a distinct advantage in terms of user interface messaging functionality for hand-held devices. By patenting this invention, we would make methods of treating incoming messages exclusive to Motorola. Because the user interface is a very distinctive part of the product, it would provide a significant competitive advantage and establish Motorola as a leader in new message dialogs for various message types.

23. Engineering Managers Name (Type)	Signature	Date	Dept. No.	Phone
Tom Walczak	<u>[redacted]</u>	<u>[redacted]</u>	BA505	523-2293
24. Product/Marketing Managers Name (Type)	Signature	Date	Dept. No.	Phone
Don Linder	<u>Donald Linder</u>	<u>[redacted]</u>	BB960	523-8090
25. The Manager must determine the security classification of this information. See Personnel Policy #840, and Corporate SOP E60, Protection of Proprietary Information.				

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Motorola Confidential Proprietary

Page 2— Disclosure No. \_\_\_\_\_

Motorola Confidential Proprietary

## 11B. Inventor's Full Name: (Type)

Eric Christensen

Signature

Date

Social Security No.

Home Address: Street  
1023 Grissom Dr.

Palatine

City

State  
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USA 60067Citizen of (i.e. U.S., Germany, etc.)  
USADept. No. Phone Room No.  
BB806 8475234990 IL93AN282Employee Status  
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☐ Contractor

## 11C. Inventor's Full Name: (Type)

Paul Silver

Signature

Date

Social Security No.

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Buffalo Grove

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USADept. No. Phone Room No.  
BA569 847-523-6838 IL93AE319Employee Status  
☒ Permanent  
☐ Contractor

(847) 434-6587

## 11C. Inventor's Full Name: (Type)

George W. Schaupp, Jr.

Signature

Date

Social Security No.

Home Address: Street  
1511 Penrith Pl.

Schaumburg

City

State  
ILCountry Zip Code  
USA 60197Citizen of (i.e. U.S., Germany, etc.)  
USADept. No. Phone Room No.  
BB805 847-523-2903 IL93AW482Employee Status  
☒ Permanent  
☐ Contractor

## 11C. Inventor's Full Name: (Type)

Keith McConnell

Signature

Date

Social Security No.

Home Address: Street  
3705 East Lake Shore Drive

Wonder Lake

City

State  
ILCountry Zip Code  
USA 60097Citizen of (i.e. U.S., Germany, etc.)  
USADept. No. Phone Room No.  
BB813 847-523-4184 IL93DE215Employee Status  
☒ Permanent  
☐ Contractor

## 11C. Inventor's Full Name: (Type)

Scott E. Preece

Signature

Date

Social Security No.

Home Address: Street  
606 W. Washington St.

Urbana

City

State  
ILCountry Zip Code  
USA 61801Citizen of (i.e. U.S., Germany, etc.)  
USADept. No. Phone Room No.  
BA546 217-384-8589 IL67-UDC1Employee Status  
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☐ Contractor

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**2. State the problems resolved by this invention.**

In small handheld devices there are two problems associated with the notification of events to the end user.

The first problem has to do with letting the user know that an event (such a new message or a scheduled appointment) has occurred. When this happens, the phone must let the user, who is not always in the presence of the device, know that an event has transpired. In mobile devices, this alert must grab the attention of the user both when the user is in close proximity to the device and when the user is returning to the device after a period of time has elapsed since the event occurred. In the latter case, the phone must alert the user without unnecessarily draining the battery of the device.

The second problem related to event notification has to do with an unobtrusive method of navigating to a detailed description of the event or performing a relevant action. This act of viewing or performing an action should let the user "get in and out" without having to navigate a menu on the small display.

**3. Describe the invention in detail.**

This invention is a method of notifying the user of a mobile device that an event has occurred and providing the user with a mechanism for quickly viewing a detailed description of the event or performing a relevant action. The invention consists of the following:

- a new event notification.
- customizable new event alerts.
- a reminder alert.
- a new event icon (if available).
- memory full dialogs
- quickview messages

**New Event Notification**

New event notifications are used to let the user of a new event. The new event notification consists of the following two items:

- a new event alert.
- a new event dialog.

When an event occurs, a New Event Dialog is displayed to inform the user of the new event. The Dialog is accompanied by an alert which provides the user with the option of viewing/acting upon the new event or dismissing the dialog to resume the previous task. A New Event Dialog occurs in any state in the user interface except when the user is in a "detailed view" mode such as when viewing a message. In these states, the user is engaged in a task and should not be interrupted. After the user exits this state, the Dialog and Alert are activated.

The dialog remains on the display until it is dismissed, acknowledged by the user, or the display times-out to save battery. Pressing any key which is not a direct response to the dialog dismisses it temporarily. A display time-out also temporarily dismisses the dialog. If reminders are on, the dialog and alert will be reactivated after a period of time.

Inventor: Inventor: Witness: Witness: 

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Page 5 — Disclosure No. \_\_\_\_\_

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The dialog contains two actions for acknowledging the event. One action acknowledges the event, but implies that the user will deal with it later (EXIT, IGNORE, READ LATER...). For example, pressing EXIT silences the alert, dismisses the dialog, and turns off the reminder so that the user will not be interrupted by this event in the future. The other action is the "do it" action which implies that the user will deal with the event immediately (READ, CALL, ANSWER...). For example, pressing READ on a New Message Dialog will acknowledge the event (stop future notifications for this particular event) and take the user to the message. After completing the task, the user is returned to Idle (home state).

The new event Alert is either an audible or vibrate alert pattern which occurs once (to maximize battery life). For each event type, there is a separate dialog. To present information in a concise manner (on the small display) dialogs keep a running count of new events for the specified event type. This is done to minimize the number of dialogs which will have to be displayed at any one time. Multiple dialogs on the small display must be queued and are thus hidden on the small display.

New Voice Mail Dialog

<input checked="" type="checkbox"/> New Voice Mail	
EXIT	CALL

New Text Message Dialog

<input checked="" type="checkbox"/> 3 New Text Messages	
EXIT	READ

New Information Service Message Dialog

<input checked="" type="checkbox"/> 3 New Info. Service Messages	
EXIT	READ

New Answering Machine Message Dialog

<input checked="" type="checkbox"/> 3 New Answer Machine Msgs	
EXIT	PLAY

Inventor

Witness

Inventor

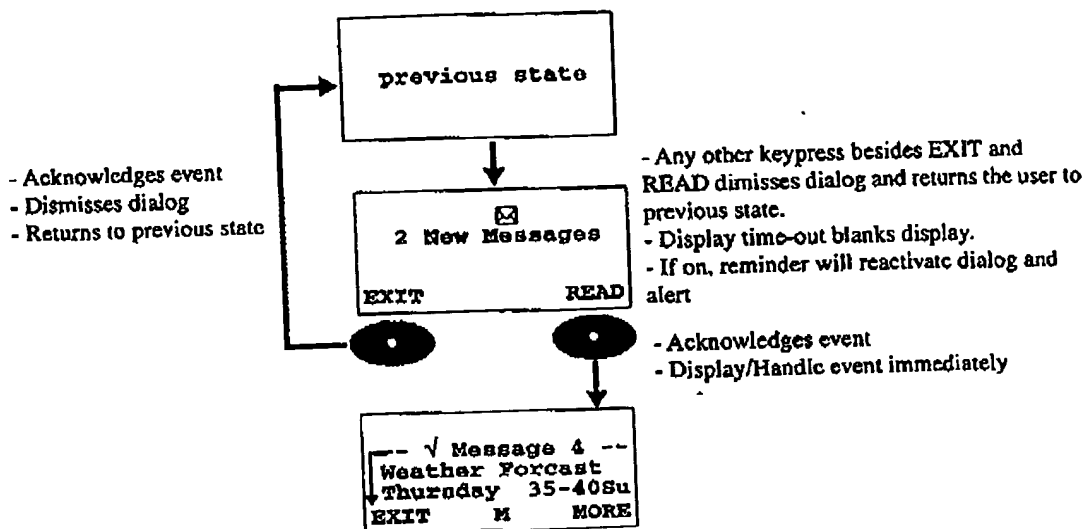
Witness

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### Customizable Alerts

The user is able to set a different alert for each type of event. This allows the user to know what the event is before even looking at the display. An example of how this can be used is an alert for a meeting which the user is already attending. If the user knows that the alert is for this meeting, the user can acknowledge the event without even looking at the device. This type of "blind" acknowledgment" is frequently performed on pagers, which can be silenced without viewing the new message.

### Reminders

Reminders can be turned on or off for each event type. There can only be one reminder for each event type. If the Reminder Status is turned on, the user is reminded every 5 minutes with an audible or vibrate alert that a new event has occurred. If the dialog was dismissed or the display has timed out, the reminder will re-display the New Event Dialog. This reminder will repeat every 5 minutes until the user acknowledges the New Event or the phone is turned off.

New Event Reminders only occur in Idle state and override any other message dialog or reminder. Only the most recent dialog or reminder is active at any time. On phones with enough memory to track reminders, once the most recent reminder is acknowledged, the next most recent dialog or reminder becomes active.

If the user is in a not in the Idle state, New Event Reminders will be delayed until the user returns to Idle state.

New Event Indicator

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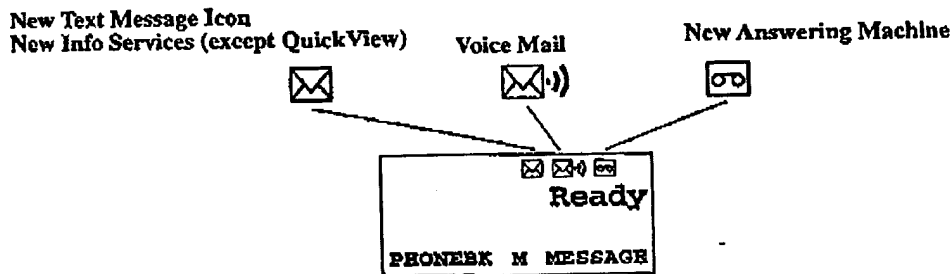
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In addition to the dialog and the alert, some events have icons (event indicators) which remain in the display until the event is no longer new. An example of a "new" event which becomes "old" is a new message. It is considered "old" once the user has "read" the message. For any given event type, the indicator stays on until all events of that type are old.



### Memory Full Dialogs

For some events, such as messages, the new event is accompanied by a new item in memory. With these types of events, memory is used to store the new item and can become full on small devices with limited memory. When a message is received the device checks to see if the memory becomes full. If the Inbox is now full, an "full" message is displayed as part of the New Message Dialog. On technologies which do not stop sending messages when a device's memory is full, the side box illustrates the New Message Dialog which is used. On technologies which stop sending messages when the Inbox is full, the handset notifies the network when the Inbox can begin accepting new messages.

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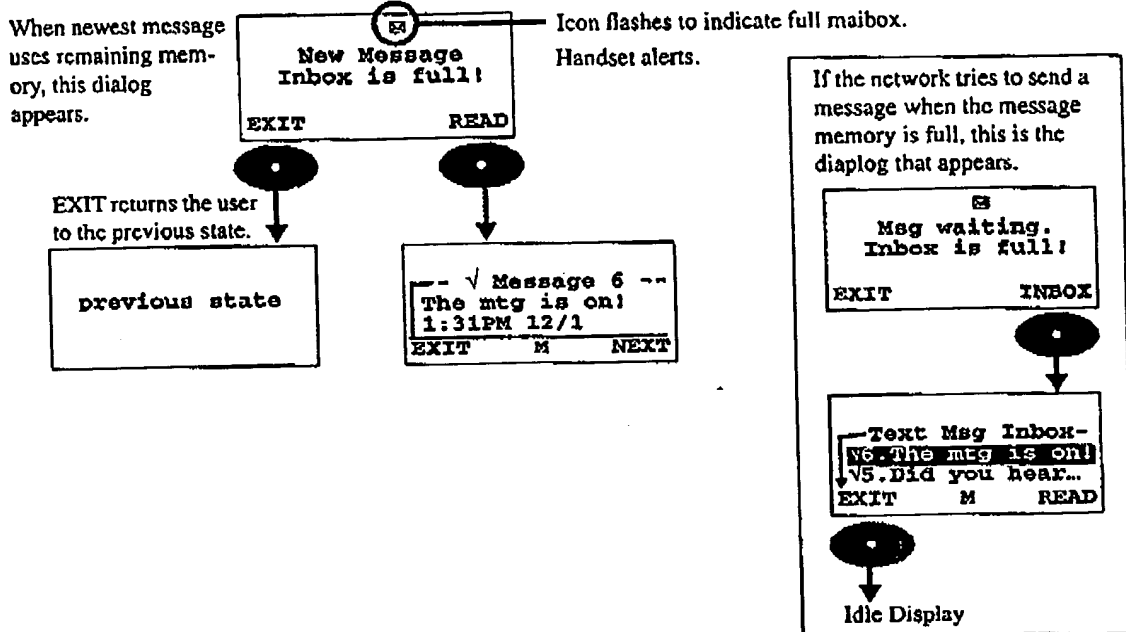
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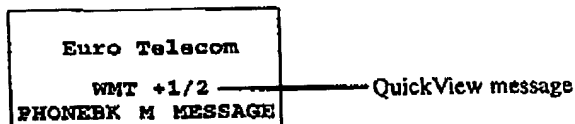
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### Quick View Messages

Quick View Messages are messages received on a Cell-Broadcast channel which has been specified by the user as a "Quick View" channel. These messages are immediately displayed in the Idle display.



When a Quick Message arrives, the New Message Alert is played to let the user know of the new message. If the message is only 1 line long, it is displayed on the third line. If the message is longer than 1 line, it is displayed in its entirety for 30 seconds. The message then times out and only the beginning of the message is displayed on the third line. Pressing the END soft key on the Idle display deletes the Quick View message from the Idle Display. The user has the user settable option of saving a copy of Quick View messages in message Inbox. If this option is turned on, a copy is saved in the Inbox as a "Read" message.

### 4. New elements.

The new elements in this user interface are:

- Event counters in New Event Dialogs
- Reminders

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